

Report Date: 25 Sep 2013

Summary Report for Individual Task

061-271-1212

Boresight an M138 Elbow Telescope by Using a Distant Aiming Point (DAP)

Status: Approved

DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

DESTRUCTION NOTICE: None

Condition: Given an M198 howitzer with the M138 elbow telescope mounted, a tube aligned on a well-defined aiming point (at least 1,500 meters away), and a calibrated gunner's quadrant.

Standard: Boresight the M138 elbow telescope so that the sight picture of the telescope is aligned with sight picture of the bore with no deviation IAW the technical guidance listed in TM 9-1025-211-10.

Special Condition: None

Safety Level: Low

MOPP:

Task Statements

Cue: Upon occupation of a new position.

DANGER

None

WARNING

None

CAUTION

When working with/around radioactively illuminated fire control equipment, follow radiation hazard procedures.

Remarks: None

Notes: None

Performance Steps

1. Cross-level the M172 Telescope and Quadrant Mount.

Note: Boresighting of the M138 elbow telescope is not mandatory upon occupation of a new position area but should be done as soon as time permits. The elbow telescope and M172 telescope and quadrant mount are designed to reduce the need to boresight after installing and removing the telescope. Boresighting of the elbow telescope is done by the DAP method. Note. The chief of section selects a DAP with a well-defined vertical axis and horizontal axis, ideally at least 1,500 meters from the weapon. If such an aiming point is not available, the chief of section boresights at the engagement range for direct fire.

2. Adjust the diopter scale.
3. Measure elevation to the distant aiming point with the gunner's quadrant.
4. Elevate muzzle 2.3 mils.
5. Check the cross level of the M172 Telescope and Quadrant Mount.
6. Align the reticule pattern onto the DAP.
7. Adjust the alignment (as necessary).

Note: If the elevation line is not aligned with the DAP, repeat the process. If alignment still cannot be achieved, turn the elevation adjusting screw with a screwdriver until aligned.

(Asterisks indicates a leader performance step.)

Evaluation Preparation: Setup: Ensure that all information, references, and equipment required to perform the task are available. Use the performance measures and the references to score the Soldier's performance. Brief the Soldier. Tell the Soldier what he is required to IAW the task conditions and standards.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Cross-leveled the M172 telescope and quadrant mount.			
2. Adjusted the diopter scale.			
3. Measured elevation to the distant aiming point with the gunner's quadrant.			
4. Elevated muzzle 2.3 mils.			
5. Checked the cross level of the M172 telescope and quadrant mount.			
6. Aligned the reticule pattern onto the DAP.			
7. Adjusted the alignment, if necessary.			

Supporting Reference(s): None

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT.

Safety: In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Composite Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination.

Prerequisite Individual Tasks :

Task Number	Title	Proponent	Status
061-266-2238	Establish a Distant Aiming Point	061 - Field Artillery (Individual)	Approved

Supporting Individual Tasks : None

Supported Individual Tasks : None

Supported Collective Tasks : None